

UCC Discipline of Medical Imaging and Radiation Therapy

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Newsletter

*Lifelong
developments in
Radiation Therapy*

Thank you to the IIRRT for this opportunity to update our colleagues on our activities and News.

Diagnostic Radiographers and Radiation Therapists learning together.

The College of Medicine and Health UCC commenced an MSc in Radiation therapy (Graduate entry). This program will be a 2-year, full-time, taught master's programme, with a student intake of eight students in 2020/2021. The programme will be placed in the School of Medicine, which has all the relevant core disciplines available to contribute to the programme. It will provide students with the knowledge and expertise to place them at the forefront of their field, with the skills and the ability to provide evidence-based and innovative practices, to think creatively and strategically, be flexible and to work collaboratively.

On the 29th September 2020 perhaps for the first time in the Republic of Ireland, the 1st year MSc Diagnostic Radiography and Radiation Therapy shared Anatomy and Biological Sciences classes. It was fantastic to hear the discussions and the sharing of experiences and aspirations across both cohorts.

We also are delighted to announce the appointment of Theresa O'Donovan as the Radiation Therapy lecturer to our growing team. Theresa has a wealth of experience and an abundance of enthusiasm for Radiation Therapy and our students will be in great hands.



MSc IN RADIATION THERAPY

 **UCC**
University College Cork, Ireland
Coláiste na hOllscoile Corcaigh

***“Grateful to be in
the first class of
graduates”***

Congratulations to the first graduating cohort of MSc Diagnostic Radiography.

15 Radiographers with bright futures

It was an honour and privilege to send out completion letters to our first cohort of student radiographers. I would like to take this opportunity to recognise everyone on the Diagnostic Radiography team that has been working so hard to ensure the quickest possible confirmation of all students conferring. We have had the programme approved by CORU in record time, marks presented to UCC in record time. We thank CORU for the accelerated registration process.

We would like to take this opportunity to congratulate the students. It has been a honour to teach them on this programme, and although due to COVID, it has not been smooth sailing all the way, we have gotten the students to completion on time and in good order.



16 Students entering 2nd year, having worked clinically through the COVID pandemic.

Our new second years (below) are returning to the University after a momentous learning experience with our clinical partners. We have been so proud of how they have approached this challenge and we look forward to guiding them through their final year.



*A network of
practice tutors*

Developing a practice education team

Our Practice Education Team, overseen by Rena Young, includes 8 practice tutors across our clinical sites in the SSWHG. Our tutors provide clinical teaching along with imparting knowledge from their vast array of experience, to ensure UCC diagnostic radiography students meet the highest standards of clinical and professional competence. Our team of Practice Tutors is made up of:

- Grainne Curran – UCC and Bon Secours Hospital, Cork
- Tracy Courtney – University Hospital Kerry
- Paula Smith – University Hospital Waterford
- John O’Neill – South Infirmary-Victoria University Hospital, Cork
- Bríd Leamy – Cork University Hospital
- Fiona Kevane – Bantry General Hospital
- Michelle Mossop – Mercy University Hospital, Cork
- Bríd Hayes – South Tipperary General Hospital, Clonmel

Ongoing education events

*Delivering on the
education needs for
the region*

The School of Medicine UCC hosts their IIRRT endorsed Adult IV cannulation and administration course twice annually. This course provides Radiographers and Radiation Therapists with the theoretical and practical training related to IV cannulation and injection of contrast media and radiopharmaceuticals used in Imaging patients. Education and practical training takes place in UCC’s advanced Clinical Skills Department. The course entails an intense practical training session, where each candidate is supervised practicing on individual IV training arms. The course also features a specially-developed anatomy practical session in UCC’s state of the art FLAME Anatomy laboratory.



IV course candidates in FLAME Lab IV course December 2019

SI 256, SI 30 Legislation Update Study Day, 18th January 2020, Discipline of Radiography, UCC Cork.

*Working to
develop the
evidence base for
the good of
patients*



There was much interest in this timely Study Day, given the recent updates to ionising radiation legislation and, in particular, the potential impact on the radiographer's role of changes in the SI 256 legislation relating to benefit/risk

communication and the potential for radiographers to assume both referrer and practitioner responsibilities. Over 60 radiographers and other health professionals attended the course. An overview of both items of legislation was given, along with presentations of the role of HIQA and the RSM. Implications for radiographers assuming extended responsibilities was also explored through presentations and facilitated group work addressing risk/benefit communication strategies and challenges with implementation.



In a hugely successful event Dr Charbel Saade led a study day on CT angiography and UCC Brookfield Health Sciences Centre. Associate Professor Shane Foley of UCD and Professor Mark McEntee of UCC also presented.



University of Sydney Senior Lecturer Dr Warren Reed spent 2 weeks with UCC MIRT as a visiting lecturer. Working on joint research projects, publications and presenting to local hospitals.



State of the art equipment installed for excellent up-to-date student learning. Staff and colleagues pictured at the Launch of the MSc Diagnostic Radiography.

Publication and Grant Success

We have had great success in significant peer-reviewed publications in 2020 and it will continue to be our mission to develop the evidence base for the good of patients. We have been working with clinical partners and international collaborators, UCC staff are in bold in the following publications:

1. Garba, I., Zarb, F., **McEntee**, M. F., & Fabri, S. G. (2020). Computed tomography diagnostic reference levels for adult brain, chest and abdominal examinations: A systematic review. *Radiography*.
2. Karl James, Patrick Duffy, Richard G Kavanagh, Brian W Carey, Stephen Power, David Ryan, Stella Joyce, Aoife Feeley, Peter Murphy, Emmet Andrews, Mark F **McEntee**, Michael Moore, Conor Bogue, Michael M Maher, Owen J O'Connor (2020). Fast acquisition abdominal MRI study for the investigation of suspected acute appendicitis in paediatric patients. *Insights into Imaging*, 11(1), 1-11.
3. C Crowley, EU Ekpo, BW Carey, S Joyce, C Kennedy, T Grey, B Duffy, R Kavanagh, K James, F Moloney, B Normoyle, N **Moore**, R Chopra, JC O'Driscoll, MF **McEntee**, MM Maher, OJ O'Connor (2020). Radiation dose tracking in computed tomography: Red alerts and feedback. Implementing a radiation dose alert system in CT. *Radiography*.
4. **McEntee**, M., & Hogg, P. (2020). *Translating radiography research into practice*. Radiography (London, England: 1995).
5. Joyce, S., O'Connor, O. J., Maher, M. M., & **McEntee**, M. F. (2020). Strategies for dose reduction with specific clinical indications during computed tomography. *Radiography*.
6. Di Michele, L., Thomson, K., **McEntee**, M., Kenny, B., & Reed, W. (2020). Knowledge translation: Radiographers compared to other healthcare professionals. *Radiography*.
7. Del Gante, E., Kumar, M., **McEntee**, M., Sng, L. H., Tan, C. Y., Yeo, C. K., ... & Ekpo, E. (2020). Accuracy of radiographer comment following a two-month experiential and blended learning in appendicular skeleton X-ray interpretation: The Singapore experience. *Radiography*.
8. Anamaria Pazanin, Damijan Skrk, Jessica C **O'Driscoll**, Mark F **McEntee**, Nejc Mekis, Optimal Collimation Significantly Improves Lumbar Spine Radiography, *Radiation Protection Dosimetry*, ncaa057, <https://doi.org/10.1093/rpd/ncaa057>
9. Abdullah, K. A., **McEntee**, M. F., Reed, W., & Kench, P. L. (2020). Evaluation of an integrated 3D-printed phantom for coronary CT angiography using iterative reconstruction algorithm. *Journal of Medical Radiation Sciences*.
<https://onlinelibrary.wiley.com/doi/pdf/10.1002/jmrs.387>
10. Tapia, K. A., Rickard, M. T., **McEntee**, M. F., Garvey, G., Lydiard, L., & Brennan, P. C. (2020). Impact of breast density on cancer detection observations from digital mammography test sets. *International Journal of Radiology & Radiation Therapy*, 7(7).
11. C Sá dos Reis, F Soares, G Bartoli, K Dastan, ZS Dhlamini, A Hussain, D Kroode, MF **McEntee**, N Mekis, JD Thompson(2020). Reduction of visual acuity decreases capacity to evaluate

radiographic image quality. Radiography.

<https://www.sciencedirect.com/science/article/abs/pii/S107881742030064X>

12. Kanbayti, I. H., Rae, W. I., **McEntee**, M. F., Al-Foheidi, M., Ashour, S., Turson, S. A., & Ekpo, E. U. (2020). Is mammographic density a marker of breast cancer phenotypes?. *Cancer Causes & Control: CCC*.
13. Alkhybari, E., McEntee, M., Willowson, K., & Kench, P. (2019) 'ASSOCIATED FACTORS AFFECTING RADIATION DOSE IN F-18-FDG WHOLE BODY PET/CT'. *Journal of Internal Medicine*, 49.
14. Enterprise Ireland. 1007 Enterprise Ireland_H2020 CS 2020-0744_Radiography. Digital diagnostics – developing tools for supporting clinical decisions by integrating various diagnostic data. McEntee, Mark; OJ O'Connor, Joyce, Stella, O'Driscoll, Jessica; Scally Andrew; Moore, Niamh; Young, Rena; Maher, Micheal. 12500 Euro.



Discipline of Medical Imaging and Radiation Therapy

UGF ASSERT | Brookfield Health Sciences | T12 AK54, **University College Cork**

e-mail – radiography@ucc.ie

Courses:

<https://www.ucc.ie/en/ckx26/>

<https://www.ucc.ie/en/ckx29/>